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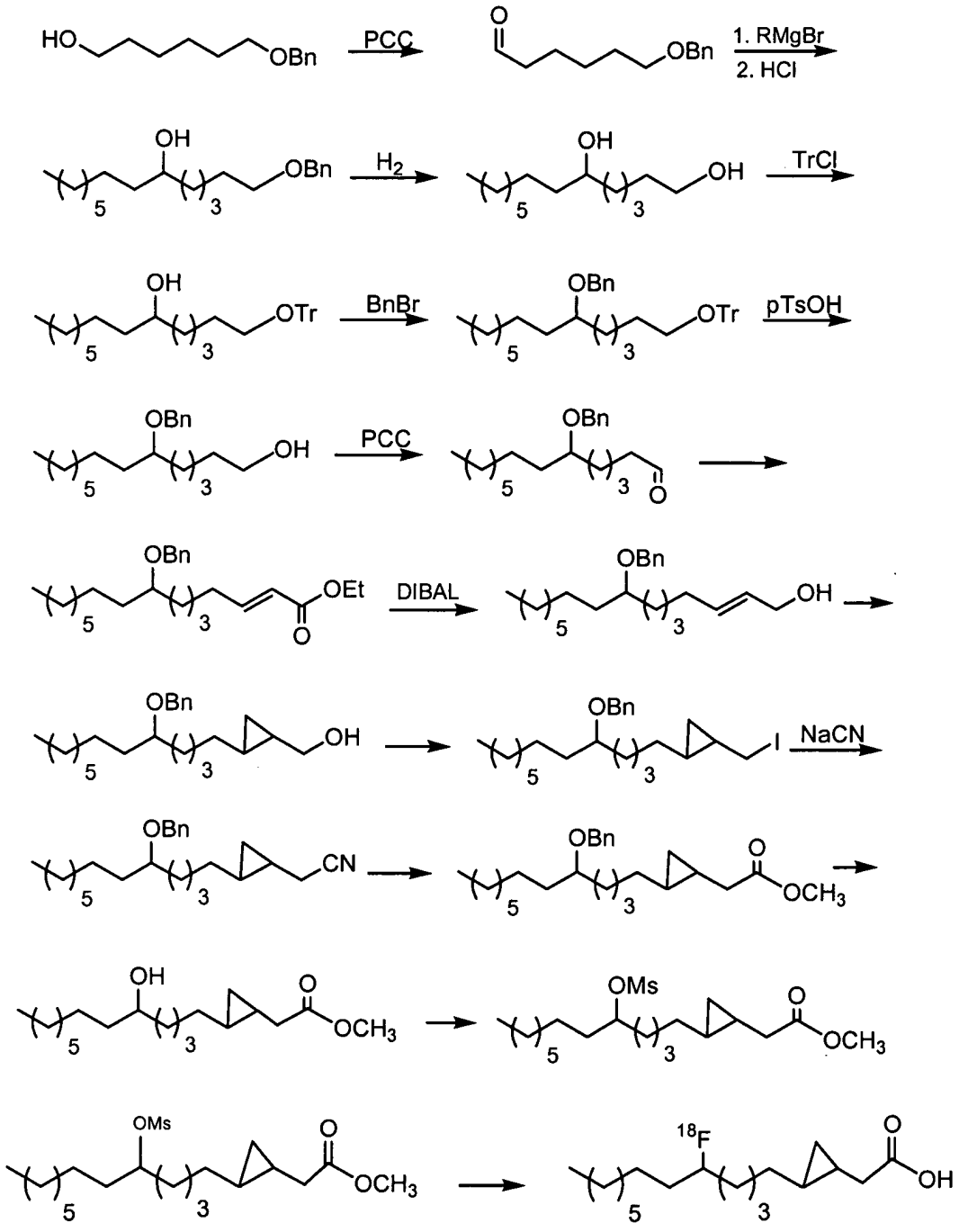
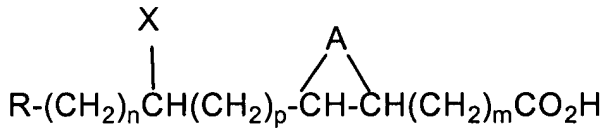


Synthesis of [^{18}F]-9-Fluoro-3,4-Cyclopropylheptadecanoic Acid

FIG.1

Aliphatic-halide



A = $(CH_2)_y$, O, S

y = 1, 2, 3, 4

cis and trans; R,R and S,S

m = 0, 1, 2, 3, 4, etc.

n = 14 - 8

p = 0 - 6

R = CH_3

X = ^{18}F or ^{123}I

FIG.2

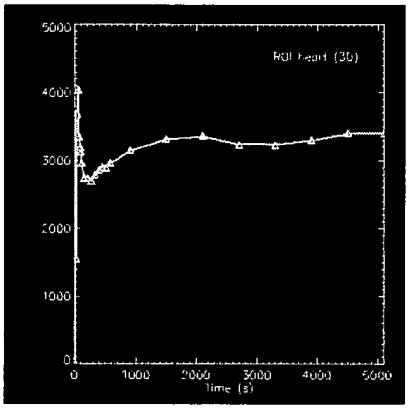


FIG. 3

FIG. 4

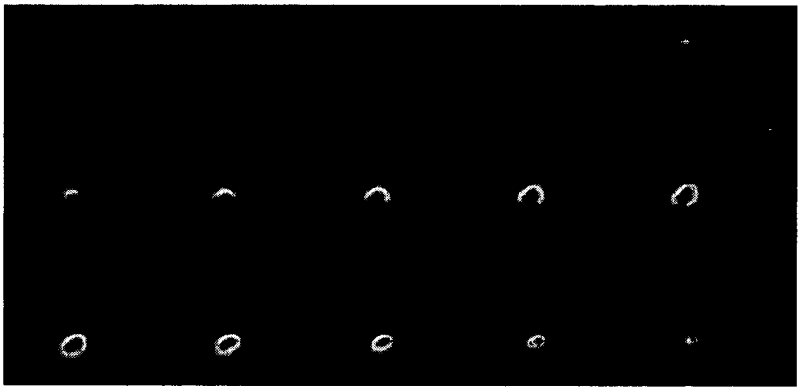


FIG. 5

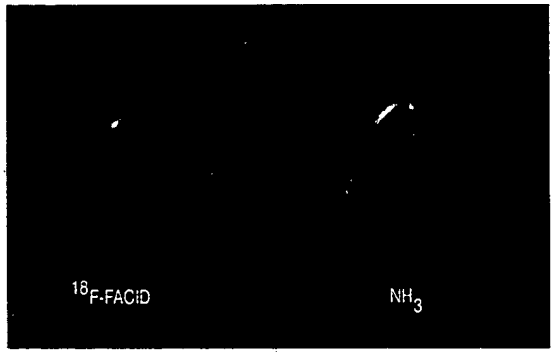


FIG. 6

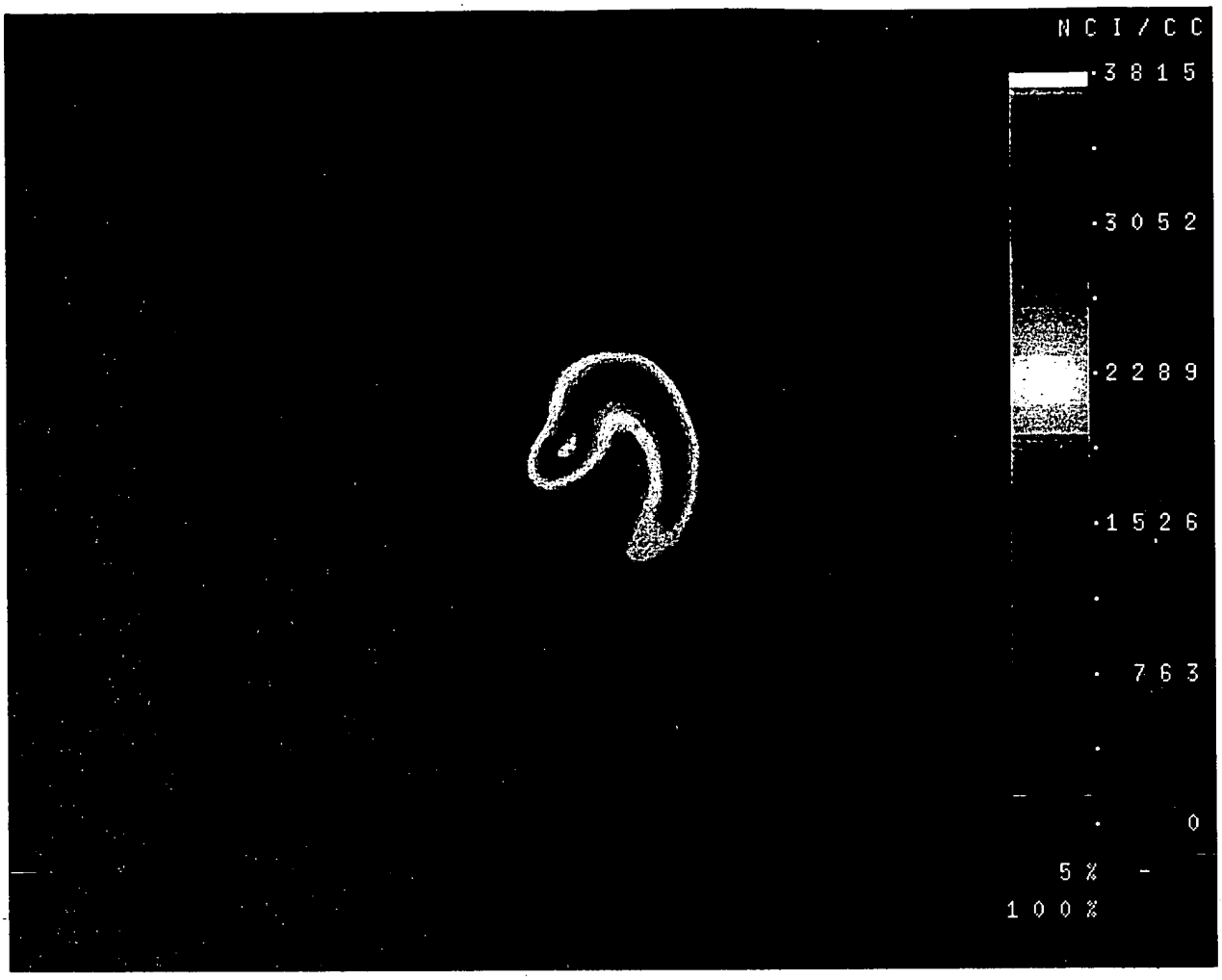


FIG.7

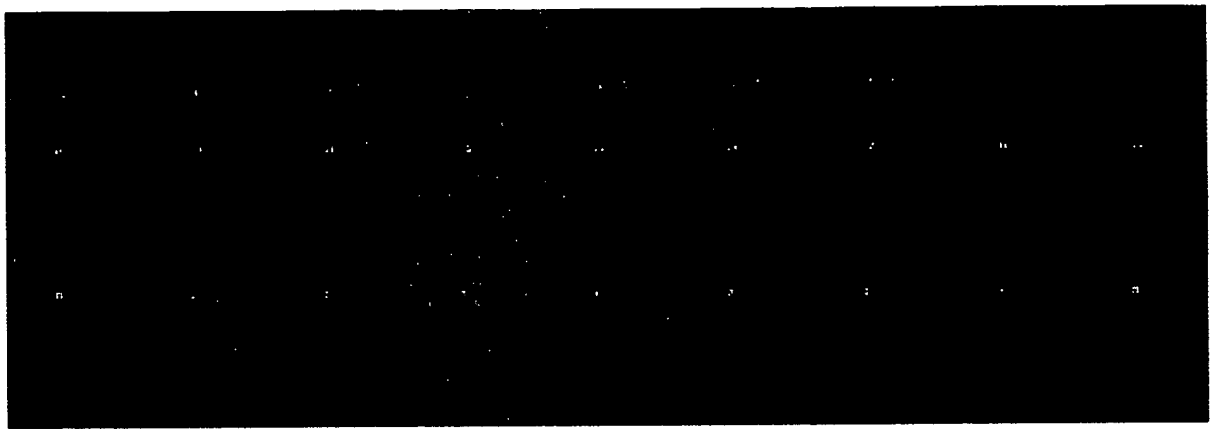
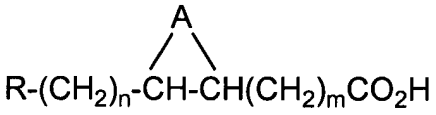


FIG. 8



A = $(CH_2)_x$, O, S

x = 1, 2, 3, 4

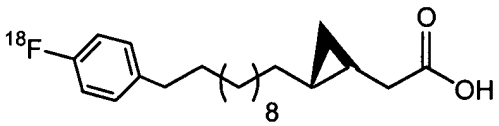
cis and trans; R,R and S,S

m = 0, 1, 2, 3, 4, etc.

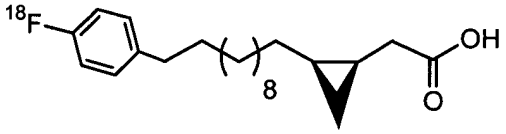
n = 14 - 8

R = ^{18}F-phenyl or ^{123}I-phenyl

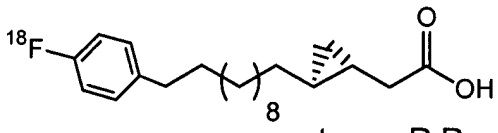
examples:



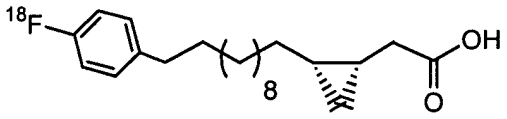
trans, S,S



cis, S,S

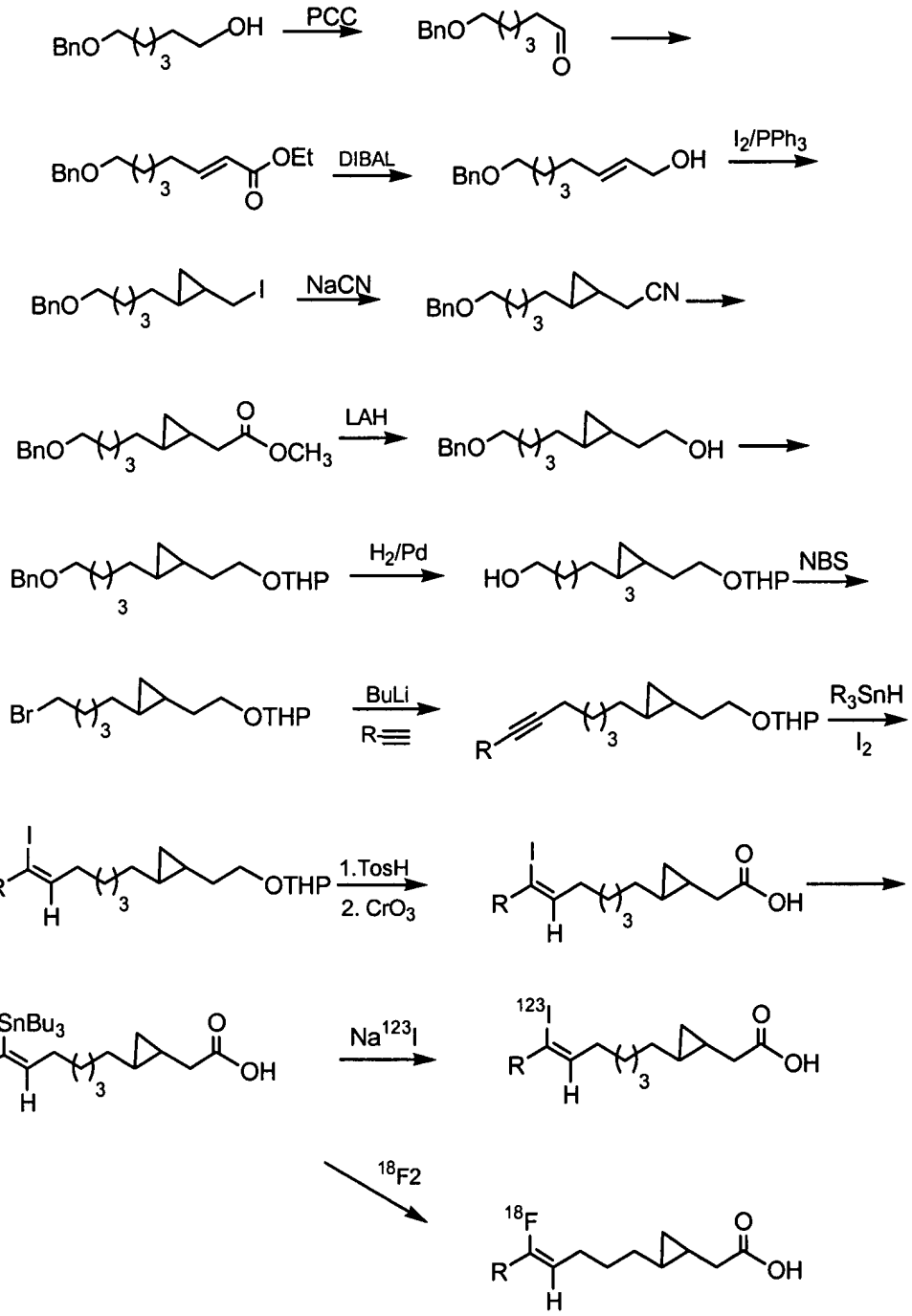


trans, R,R



cis, R,R

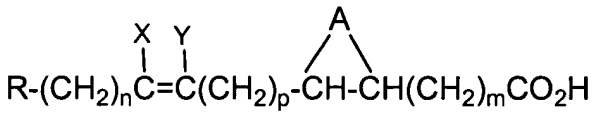
FIG.9



Synthesis of Endo- [^{18}F]Fluoro- or [^{123}I]iodo-3,4-Cyclopropylheptadecanoic Acid

FIG.10

Endo-halovinyl



X = ^{18}F or ^{123}I, Y = H

X = H, Y = ^{18}F or ^{123}I

A = $(CH_2)_z$, O, S

z = 1, 2, 3, 4

cis and trans; R,R and S,S

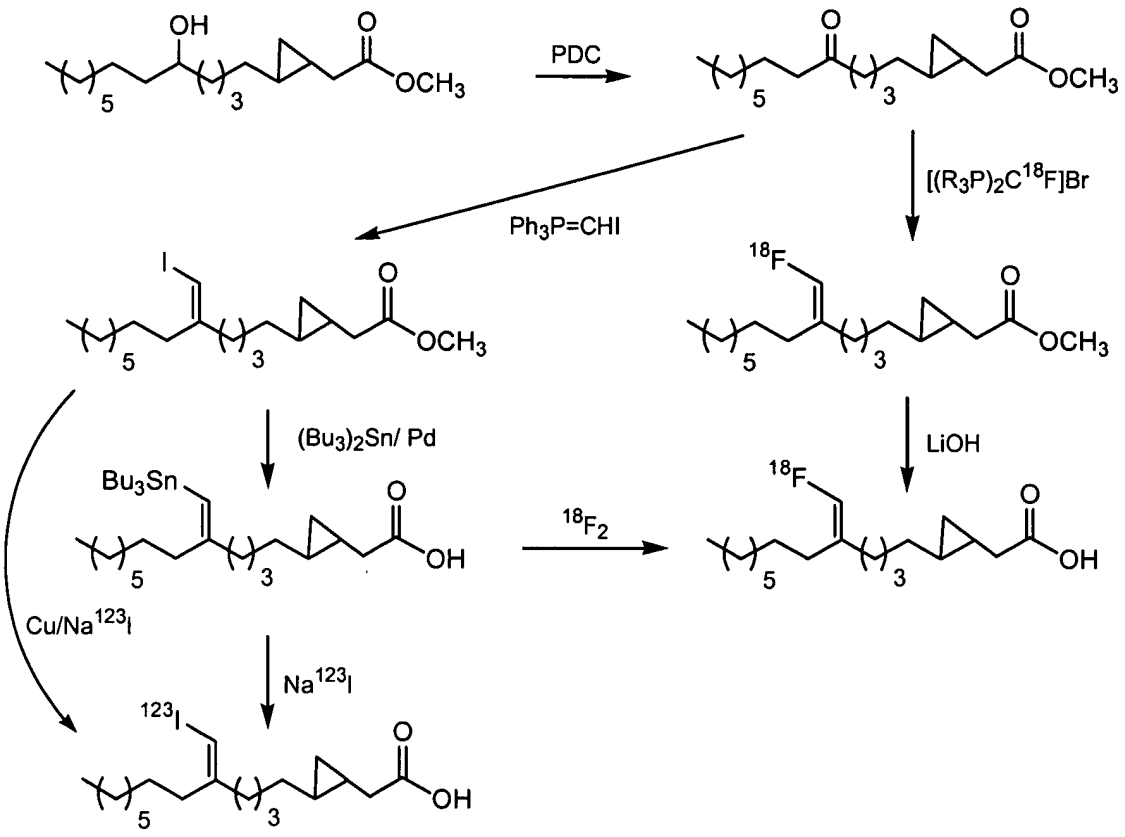
m = 0, 1, 2, 3, 4, etc

n = 14 - 8

p = 0 - 6

R = CH_3, aryl, heterocyclic

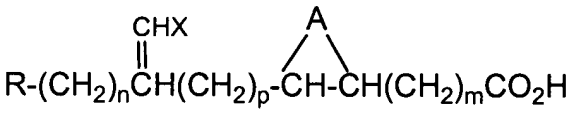
FIG.11



Synthesis of Exo- [^{18}F]Fluoro- or [^{123}I]iodo-3,4-Cyclopropylheptadecanoic Acid

FIG.12

Exo-halovinyl



A = $(CH_2)_y$, O, S

y = 1, 2, 3, 4

cis and trans; R,R and S,S

m = 0, 1, 2, 3, 4, etc.

n = 14 - 8

p = 0 - 6

R = CH_3, aryl, heterocyclic

X = ^{18}F or ^{123}I

FIG.13

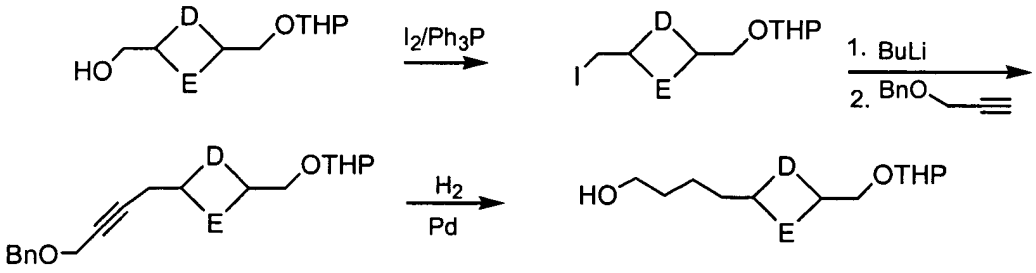
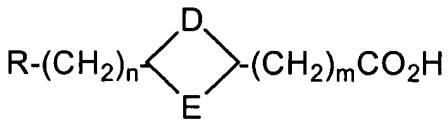


FIG.14

Ring is 4 or 5 membered with all structural variations from FIG.2, 9, 11, and 13



D = CH_2 or CH_2CH_2

E = CH_2 or CH_2CH_2

m = 0, 1, 2, 3, 4, etc.

n = 14 - 8

R = CH_3, aryl, heterocyclic

FIG.15